

Differential protection device

Patent number: EP0739073

Publication date: 1996-10-23

Inventor: MACIOCE CATHERINE (FR); BLAIN YVES (FR)

Applicant: SCHNEIDER ELECTRIC SA (FR)

Classification:


- international: H02H3/33

- european: H02H3/33

Application number: EP19960410035 19960416

Priority number(s): FR19950004851 19950418

Also published as:

 FR2733375 (A)
EP0739073 (B)

Cited documents:

CH656262
EP0484698
DE3907148

Abstract of EP0739073

The conductors feeding the protected circuit form the CT primary windings in the usual way. The wound secondary (5) has a resistive burden (R) selected to suit threshold fault currents between 30 and 300 mA. With a shunt capacitor (23) the winding forms an LC resonant circuit amplifying the fault signal and attenuating parasitic components. The rectified (D1..D4) signal passes via a delaying and filtering RC circuit (12,13) to a comparison unit (24) controlling a thyristor (14). If the received voltage (V_+ , V_-) exceeds a reference value, the comparator output (25) closes the thyristor circuit, energising a tripping relay (8). The operating voltage (V_+ , V_-) is also available to auxiliary, e.g. fault current display modules (32,33). Some variants are described.

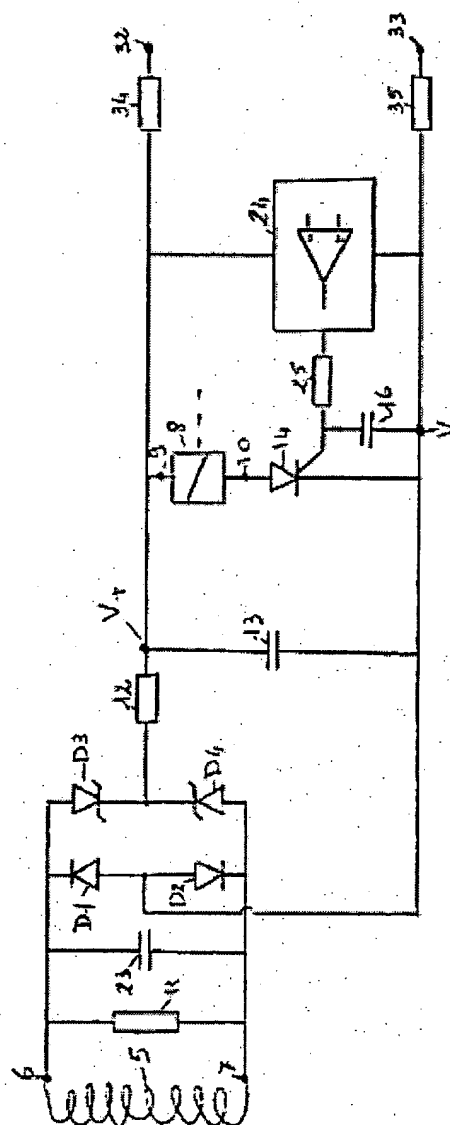


FIG. 4